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*LIMITED TO MATTERS
AND PROCEEDINGS BEFORE
FEDERAL COURTS & AGENCIES
**REGISTERED PATENT AGENT
***SENIOR COUNSEL

January 2, 2002

WRITER'S DIRECT NUMBER:
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INTERNET ADDRESS:
KAREN@SKGF.COM

The Honorable Director
of Patents and Trademarks
Washington, D.C. 20231

Attn: Group Art Unit 1642

Re: U.S. Utility Patent Application
Appl. No. 09/720,086; 102(e): July 13, 2001
(Based on PCT Appl. No. PCT/US99/14373; Int'l Filing Date: June 25, 1999)
For: **De Novo DNA Cytosine Methyltransferase Genes, Polypeptides and Uses
Thereof**
Inventors: Li et al.
Our Ref: 0609.4560002/JAG/KRM

Sir:

Applicants submit the following documents for appropriate action by the U.S. Patent and Trademark Office:

1. A facsimile copy of the executed Certificate Under 37 C.F.R. § 3.73(b) along with a copy of the Assignment document;
2. A facsimile copy of the executed Power of Attorney from Assignee; and
3. Return Postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. The U.S. Patent and Trademark Office is

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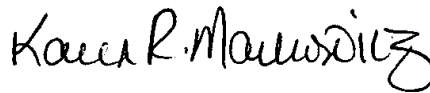
The Honorable Director
of Patents and Trademarks
January 2, 2002
Page 2

hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

If extensions of time under 37 C.F.R. § 1.136 other than those otherwise provided for herewith are required to prevent abandonment of the present patent application, then such extensions of time are hereby petitioned, and any fees therefor are hereby authorized to be charged to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Karen R. Markowicz
Agent for Applicants
Registration No. 36,351

KRM/pcd
Encls.

DEC. 5. 2001 12:02PM

S. K. G. F.

NO. 5109 P. 3/3

POWER OF ATTORNEY FROM ASSIGNEE

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The General Hospital Corporation, a corporation of Massachusetts, having a principal place of business at Fruit Street, Boston, Massachusetts 02114, is assignee of the entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on November 16, 2001, November 16, 2001 & November 11, 2001 of an invention known as De Novo DNA Cytosine Methyltransferase Genes, Polypeptides and Uses Thereof (Attorney Docket No. 0609.4560002/JAG/KRM), which is disclosed and claimed in a patent application of the same title by the inventor(s) En Li, Masaki Okano, and Shaoping Xie, Application No.: 09/720,086, which is the U.S. National Phase of PCT/US99/14373, 102(e) Date: July 13, 2001, Int'l. Filing Date: June 25, 1999.

The Assignee hereby appoint the U.S. attorneys associated with **CUSTOMER NUMBER 28393** to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being: Robert Greene Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; Michael Q. Lee, Esq., Reg. No. 35,239; Steven R. Ludwig, Esq., Reg. No. 36,203; John M. Covert, Esq., Reg. No. 38,759; and Linda E. Alcorn, Esq., Reg. No. 39,588. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

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U.S.A.

Direct phone calls to 202-371-2600.

FOR: The General Hospital Corporation

X SIGNATURE: [Signature]

BY: Dr. Frances Toneruzzo

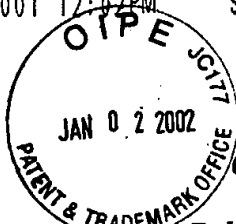
TITLE: Director, Sponsored Research and Licensing

X DATE: 12-31-01

DEC. 5. 2001 12:02PM

S. K. G. F.

NO. 5109 P. 2/3



Certificate Under 37 C.F.R. § 3.73(b)

Applicant/Patent Owner: En Li, Masaki Okano, and Shaoping XieApplication No.: 09/720,086, which is the U.S. National Phase of PCT/US99/14373, 102(e) Date: July 13, 2001
Int'l. Filing Date: June 25, 1999.Entitled: De Novo DNA Cytosine Methyltransferase Genes, Polypeptides and Uses ThereofThe General Hospital Corporation

a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest, or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.☒ Copies of assignments or other documents in the chain of title are attached.**[NOTE:]** A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

X Date: 12-21-01Name: Dr. Frances ToneguzzoTitle: Director, Sponsored Research and LicensingX Signature: [Signature]RECEIVED
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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): **En Li, Masaki Okano, and Shaoping Xie**, the undersigned inventor(s) hereby sell(s) and assign(s) to **The General Hospital Corporation** (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as **De Novo DNA Cytosine Methyltransferase Genes, Polypeptides and Uses Thereof** for which application(s) for patent in the United States of America has (have) been executed by the undersigned on July 2, 2001, July 2, 2001 and July 6, 2001 (also known as United States Application No. 09/720,086, 102(e) Date: July 13, 2001) which is the U.S. National Phase of PCT/US99/14373, international filing date June 25, 1999, in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.


The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.


The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B.

Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: 11/16/01 Signature of Inventor: 
EN LI

Date: 11/16/01 Signature of Inventor: 
MASAKI OKANO

Date: _____ Signature of Inventor: _____
SHAOPING XIE

P:\USERS\pdomally\KAREN\0609\4560002\Assignment_cvr

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): En Li, Masaki Okano, and Shaoping Xie, the undersigned inventor(s) hereby sell(s) and assign(s) to The General Hospital Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention(s) known as De Novo DNA Cytosine Methyltransferase Genes, Polypeptides and Uses Thereof for which application(s) for patent in the United States of America has (have) been executed by the undersigned on July 2, 2001, July 2, 2001 and July 6, 2001 (also known as United States Application No. 09/720,086, 102(e) Date: July 13, 2001) which is the U.S. National Phase of PCT/US99/14373, international filing date June 25, 1999, in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

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IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: _____ Signature of Inventor: _____
EN LI

Date: _____ Signature of Inventor: _____
MASAKI OKANO

Date: 11/11/2001 Signature of Inventor: Shaoping Xie
SHAOPING XIE

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